

# Utah Influenza Report

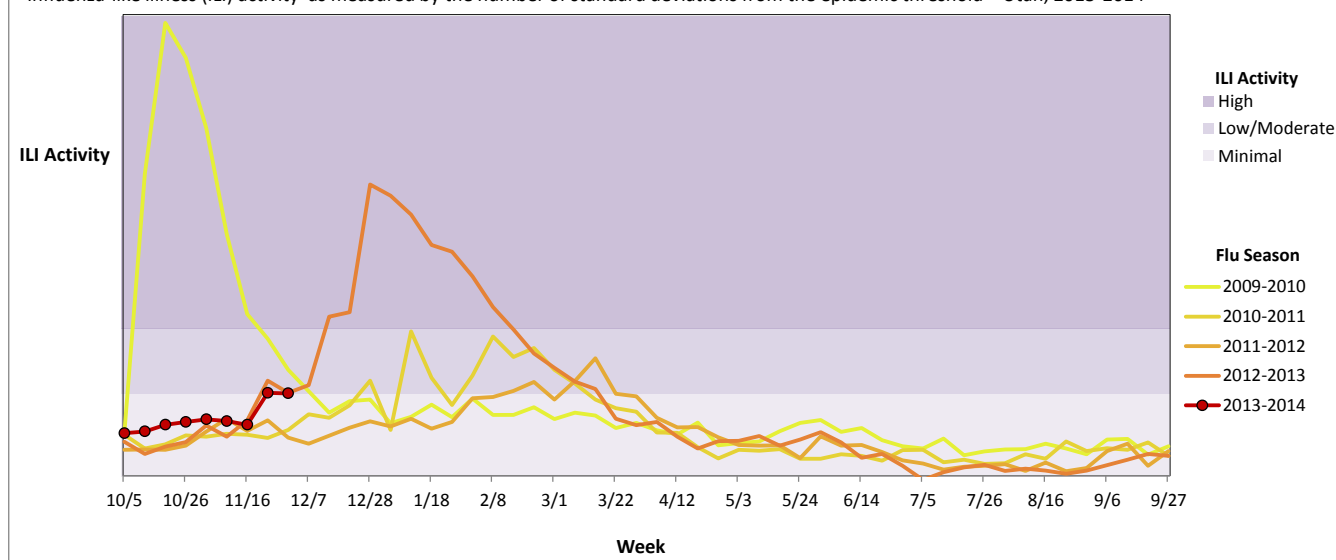
This report contains data through the week ending 11/30/2013 (MMWR week 48).

Overview of Influenza Surveillance: Surveillance for the 2013-2014 influenza season officially began on September 29, 2013. The Utah Department of Health publishes a weekly report throughout the active influenza season that synthesizes data from a variety of sources to give the most complete and up-to-date picture of influenza activity in the state of Utah. Data in this report should be considered provisional, and may change as more complete reports are received.

**Influenza-like Illness (ILI):** The U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) is a national system that conducts surveillance for influenza-like illness (ILI) in outpatient healthcare facilities. ILINet providers report weekly the total number of patients seen for any reason and the number of patients seen with ILI (defined as a fever  $\geq 100^{\circ}$  F and a cough or sore throat). These data are used to determine the amount of ILI circulating in the community, as well as provide insight into regional differences in ILI activity. Currently, more than 50 facilities throughout Utah participate in ILINet.

**Figure 1. Weekly Influenza-like Illness Activity**

Influenza-like illness (ILI) activity as measured by the number of standard deviations from the epidemic threshold - Utah, 2013-2014



**Table 1. Influenza-like Illness (ILI) Activity Levels by Health District - Utah, Current Week**

Health District	ILI Activity
Bear River	Low/Moderate
Central	Minimal
Davis	Low/Moderate
Salt Lake	Low/Moderate
Southeastern	No Data
Southwest	Low/Moderate
Summit	Minimal
Tooele	Minimal
TriCounty	No Data
Utah	Minimal
Wasatch	Minimal
Weber-Morgan	Minimal
<b>State</b>	<b>Low/Moderate</b>

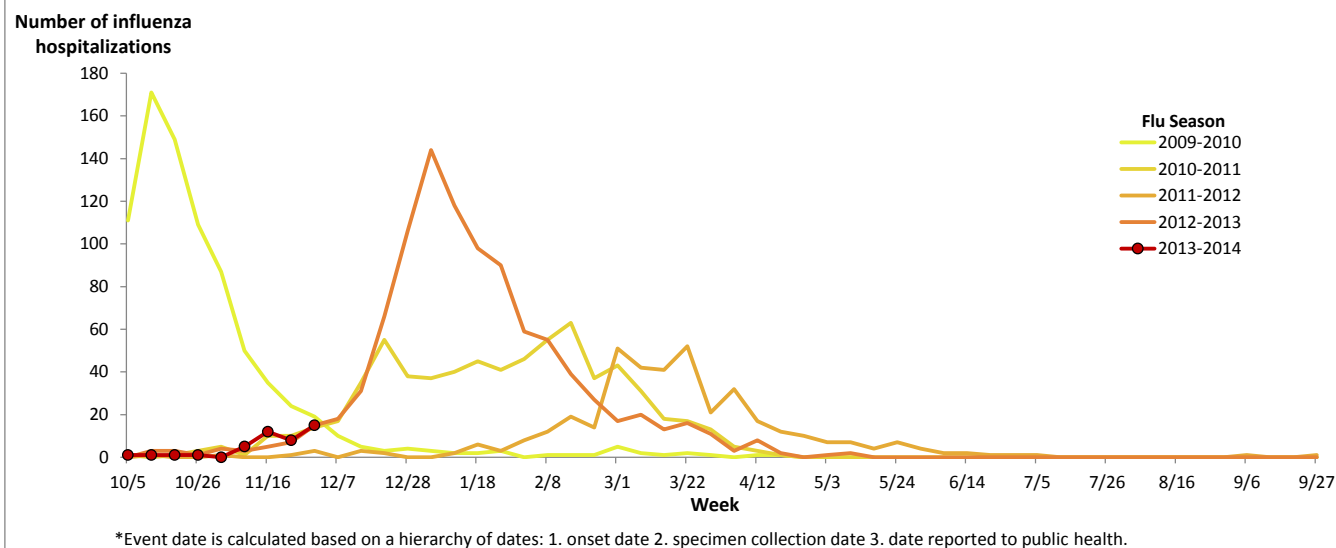
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**Influenza Hospitalizations:** Influenza hospitalizations are a reportable condition in Utah. A person meets the case definition for an influenza hospitalization if they are hospitalized for any length of time and have an influenza positive serology, DFA, PCR, or culture test (confirmed case) or a positive rapid influenza diagnostic test (probable case). Public health in Utah gathers a variety of data on influenza hospitalizations including clinical features, course of illness, risk and protective factors, and influenza type and subtype. Data from influenza hospitalizations allows public health in Utah to better understand subgroups of the Utah population that are most severely affected by influenza and help to guide prevention messages and interventions.

**Figure 2. Influenza Hospitalizations**

Number of influenza hospitalizations by event date\* - Utah, 2013-2014



**Table 2. Influenza Hospitalizations by Health District - Utah**

Health District	Current Week	Season To Date
Bear River	0	0
Central	0	0
Davis	1	1
Salt Lake	10	31
Southeastern	0	0
Southwest	0	1
Summit	1	1
Tooele	0	1
TriCounty	0	0
Utah	1	4
Wasatch	0	0
Weber-Morgan	2	5
<b>State</b>	<b>15</b>	<b>44</b>

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**Table 3. Influenza Hospitalizations by Age Group - Utah, Season To Date**

Age Group	Total Cases	% of Cases	Rate*
0-4	5	11.4	1.88
5-24	10	22.7	1.04
25-49	19	43.2	1.99
50-64	6	13.6	1.45
65+	4	9.1	1.52
<b>Total</b>	<b>44</b>	<b>100.0</b>	<b>1.54</b>

\*Rate is calculated as the number of cases per 100,000 population

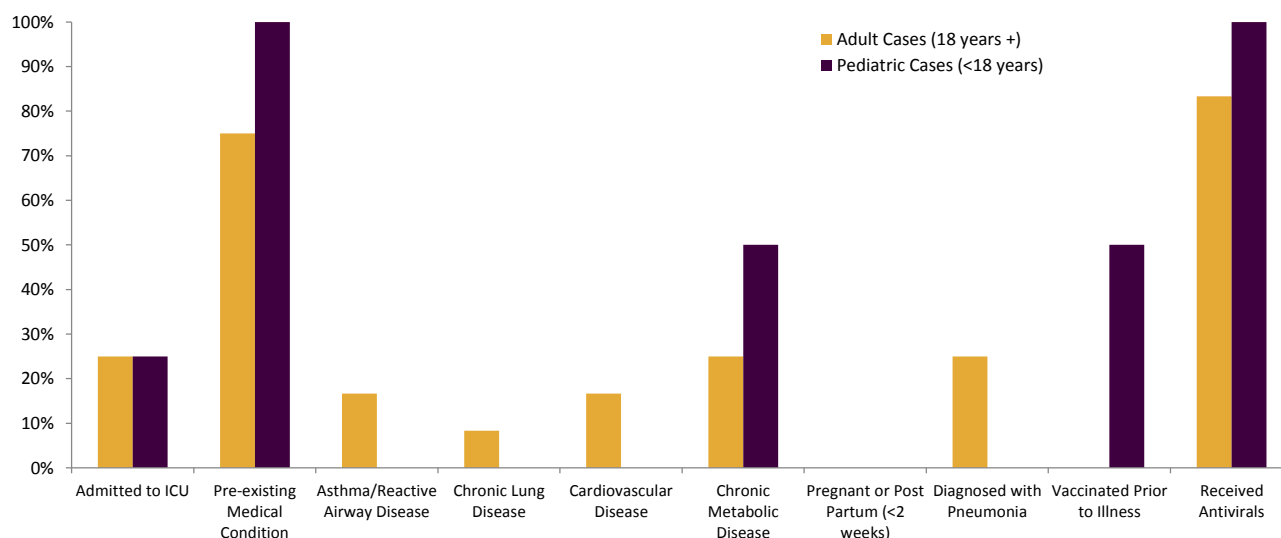
**Table 4. Influenza Hospitalizations by Sex and Race - Utah, Season To Date**

Variable		Num. of Cases	% of Cases	% in Utah Pop	p value*
Sex	Male	24	54.5	50.2	0.5684
	Female	20	45.5	49.8	0.5680
	Unknown	0	0.0	NA	--
Race	White, Not Hispanic	26	59.1	79.9	0.0009
	Hispanic	8	18.2	11.9	0.1726
	Native Hawaiian/Pacific Islander	5	11.4	1.0	<0.0001
	Black/African American	1	2.3	1.3	0.5518
	American Indian	2	4.5	1.5	0.0887
	Asian	0	0.0	2.2	0.3255
	Unknown	2	4.5	NA	--

\*If a p value is  $\leq 0.05$ , there is a significant difference between the percentage seen in influenza hospitalizations and the general Utah population.

**Figure 3. Summary Data for Influenza Hospitalizations**

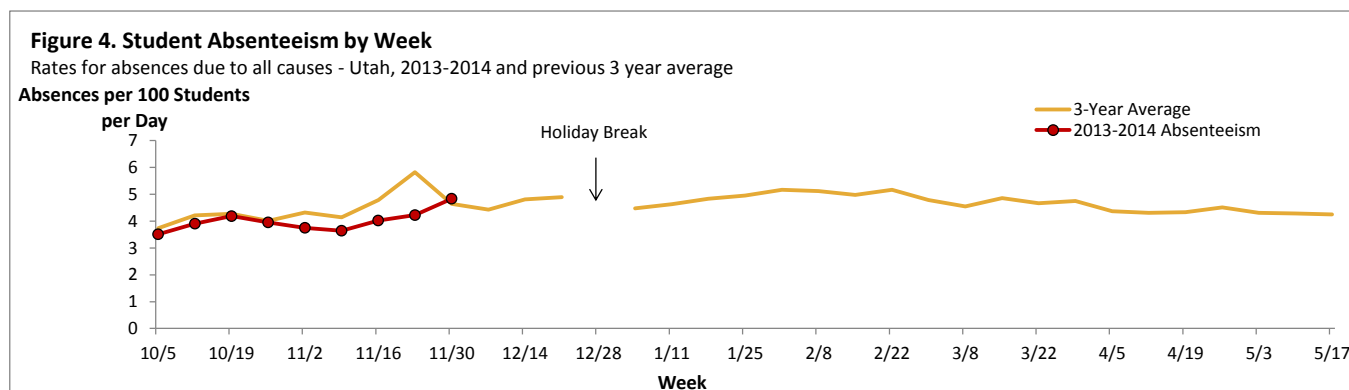
Severity, common risk factors, prevention, and treatment information collected on a subset of influenza hospitalizations - Utah, 2013-2014



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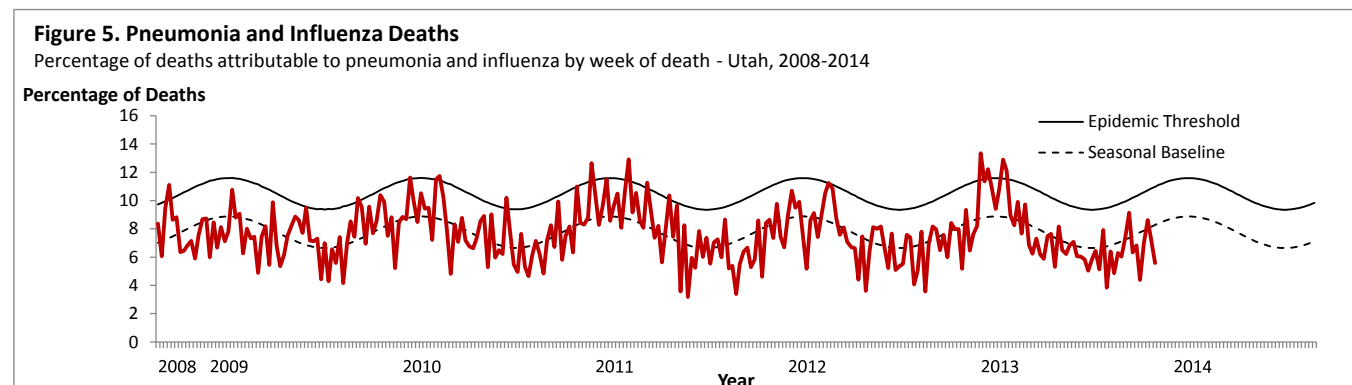
**Student Absenteeism:** School-age children are at high risk for respiratory virus infections, including influenza. Aggregate, all-cause absenteeism data is collected weekly from over 350 schools throughout Utah. These data are analyzed to identify elevated absenteeism rates that could indicate the circulation of influenza in school-age children.



**Table 6. Weekly Student Absenteeism - Utah, Current Week**

Health District	Absences per 100 students/day
Bear River	4.1
Central	7.3
Davis	4.3
Salt Lake	5.8
Southeast	7.6
Southwest	8.4
Summit	8.4
Tooele	6.9
TriCounty	9.3
Utah	2.9
Wasatch	6.0
Weber-Morgan	0.4
<b>State</b>	<b>4.9</b>

**Pneumonia and Influenza Deaths:** Each week the total number of death certificates received and the number of those for which pneumonia or influenza was listed as an underlying or contributing cause of death is collected. The percentage of deaths due to pneumonia and influenza are compared with a seasonal baseline and epidemic threshold value calculated for each week. These data are used to monitor the severity of influenza illness in the community.



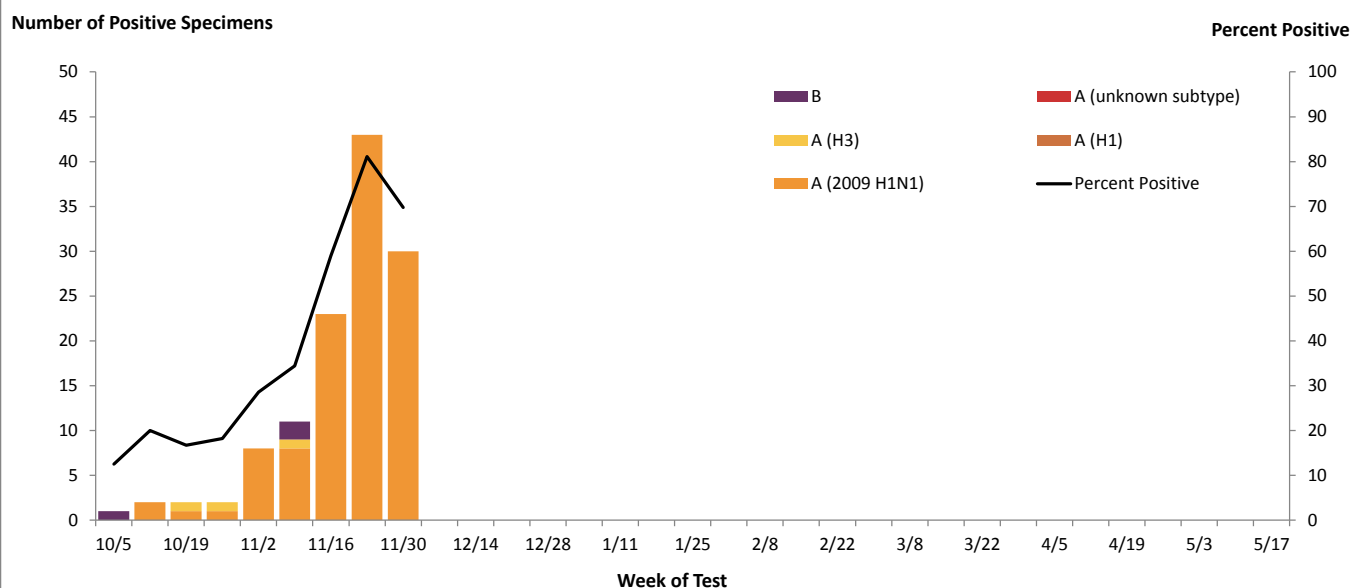
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**Laboratory Surveillance:** The Utah Public Health Laboratory receives specimens from all over the state for comprehensive influenza testing. All specimens are tested to determine influenza type and subtype. A portion of specimens are also sent to the Centers for Disease Control and Prevention for additional testing, including gene sequencing, antiviral resistance testing and antigenic characterization.

**Figure 6. Influenza Positive Tests**

Influenza positive specimens tested by the Utah Public Health Laboratory - Utah, 2013-2014



**Table 8. Utah Public Health Laboratory Influenza Testing Data**

	Current Week		Season To Date	
	Total	Percent	Total	Percent
Specimens tested	43	--	236	--
Positive specimens	30	69.8	122	51.7
<b>Positive Specimens by Type/Subtype</b>				
Influenza A	30	100.0	119	97.5
A (2009 H1N1)	30	100.0	116	97.5
A (H1)	0	0.0	0	0.0
A (H3)	0	0.0	3	2.5
A (unable to subtype)	0	0.0	0	0.0
Influenza B	0	0.0	3	2.5